

AMENDMENTS TO THE SPECIFICATION

Please amend the paragraph bridging pages 2 and 3 as follows:

Bearing the above object in mind, the present invention resides in a magnetic detection apparatus which includes: a processing circuit ~~having convex portions formed on its periphery~~ and being arranged apart from a magnetic moving member on a plane thereof, the processing circuit including a bridge circuit comprising a first magnetoelectric conversion element and a second magnetoelectric conversion element; and a magnet for applying a magnetic field to the first magnetoelectric conversion element and the second magnetoelectric conversion element and also applying a magnetic field to the magnetic moving member in a direction of an axis of rotation of the magnetic moving member. The second magnetoelectric conversion element is arranged substantially on a center line passing through the center of the magnet on a line in opposition to the magnetic moving member when viewed along the direction of the axis of rotation of the magnetic moving member, so that a differential output can be obtained from the outputs of the first magnetoelectric conversion element and the second magnetoelectric conversion element.

Please amend the paragraph bridging pages 13 and 14 as follows:

According to the present invention, there is provided a magnetic detection apparatus comprising: a processing circuit ~~having convex portions formed on its periphery~~ and being arranged apart from a magnetic moving member on a plane thereof, the processing circuit including a bridge circuit comprising a first magnetoelectric conversion element and a second magnetoelectric conversion element; and a magnet for applying a magnetic field to the first magnetoelectric conversion element and the second magnetoelectric conversion element and also applying a magnetic field to the magnetic moving member in a direction of an axis of rotation of the magnetic moving member. The second magnetoelectric conversion element is arranged substantially on a center line passing through the center of the magnet on a line in opposition to the magnetic moving member when viewed along the direction of the axis of rotation of the magnetic moving member, so that a differential output can be obtained from the outputs of the

first magnetoelectric conversion element and the second magnetoelectric conversion element. With the above arrangement, it is possible to achieve excellent detection performance even when the intervals between adjacent convex portions and the width in a direction of movement of each convex portion itself are small and when an opposing space or distance GAP between the first and second magnetoelectric conversion elements and the magnetic moving member is large.